

Free Electron Laser Applications for Biology and Medicine Workshop

Date and Setting

June 7 - 8, 2005
Hilton Garden Inn Newport News
180 Regal Way
Newport News, VA 23602
Tel: (757) 947-1080 Fax: (757) 947-1081

Aim and Scope

This workshop will be a forum for investigators to propose specific experiments in the biosciences that exploit the unique properties of Free Electron Lasers.

For further information and registration see:

<http://www.jlab.org/intralab/calendar/archive05/LBC/>

Working Themes

- UV photodamage studies from Biomolecular to animal systems
- Research and development on photodynamic action and photo-therapy
- UV-FIR spectroscopy and Microscopy of biological systems
- Dynamics of energy transfer in biomolecules
- Laser mass spectroscopy
- Laser diagnostic and imaging of biological systems
- Applications of laser ablation and laser desorption to biomedicine

Plenary Lectures

"Persistent Poignant Problems Poised for Laser Surgery"

Prof. R. Rox. Anderson, Director
Wellman Center for Photomedicine
Harvard Mass-General Hospital

"UV Photodamage: from Molecules and Microbes to Medicine and Ecosystems"

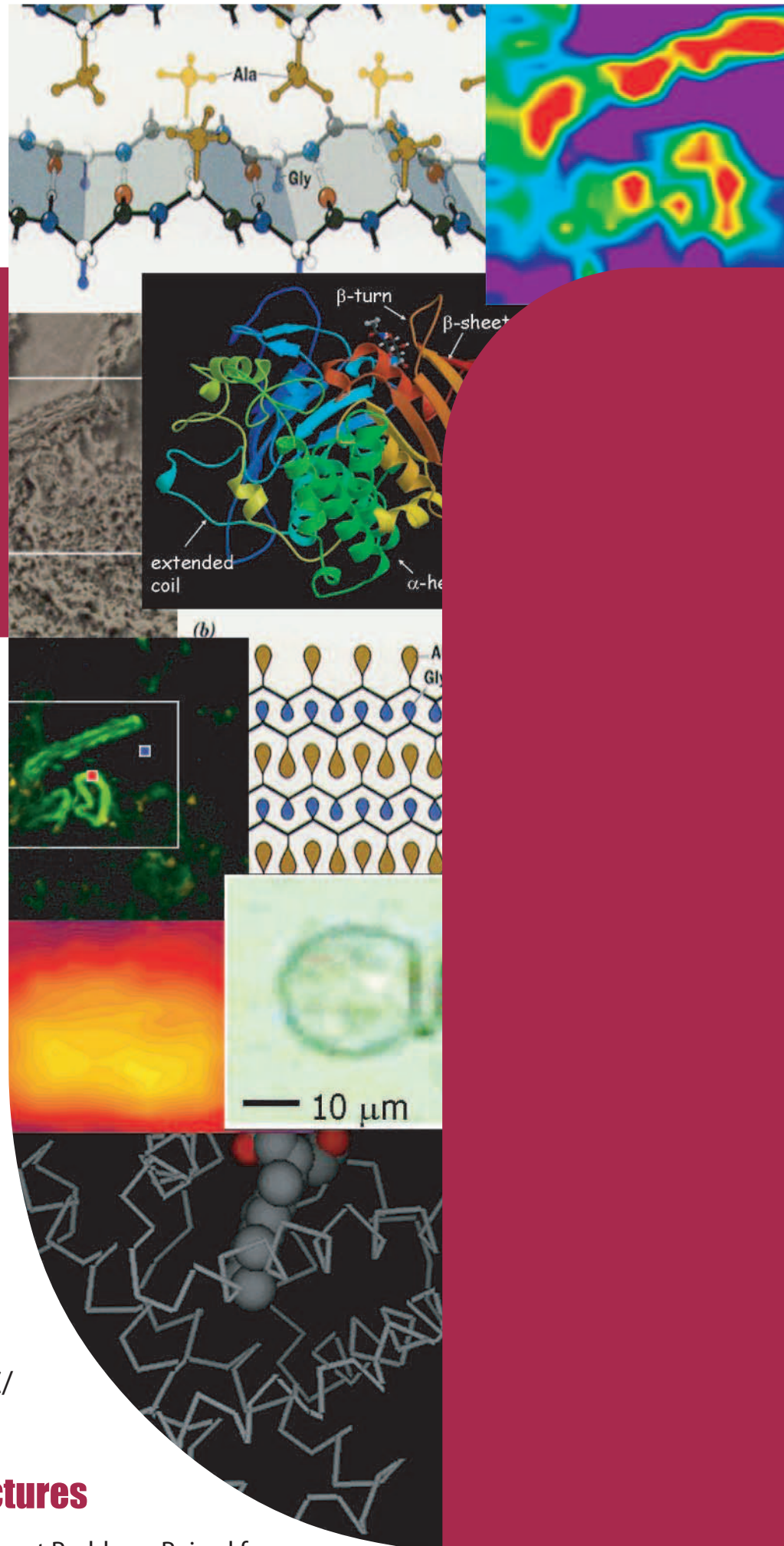
Prof. John C. Sutherland
Department of Physics
East Carolina University

"From Bones to Brains: Infrared Imaging and Chemical Changes in Disease"

Lisa Miller
Brookhaven National library

"The Jefferson Lab FEL Facility: current and future capabilities for bioscience"

H. F. Dylla
Jefferson Lab



Workshop Sponsors: Southeastern Universities Research Association (SURA), Virginia's Center for Innovative Technology, Hampton Roads Research Partnership, Eastern Virginia Medical School, College of William and Mary, East Carolina University, Harvard Mass General, University of Virginia, Princeton University, and Jefferson Lab